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NOTICE OF ALLOWANCE AND FEE(S) DUE

82727 7590

03/19/2010

Jae Y. Park Kile, Goekjian, Reed & McManus, PLLC 1200 New Hampshire Ave. NW, Suite 570 Washington, DC 20036 EXAMINER

CECIL, TERRY K

ART UNIT PAPER NUMBER

1797

DATE MAILED: 03/19/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/542,216	07/14/2005	Anderson H Kim	WEL-0039-SE	1735

TITLE OF INVENTION: IN-WATER DISCHARGING CORE AND STERILIZING WATER SUPPLYING SYSTEM USING SAID CORE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	06/21/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

indicated unless correct maintenance fee notifica	ed below or directed otl	herwise in Block 1, by (a	a) specifying a new corre	spondence address;	and/or (b) indicating a se	parate "FEE ADDRESS" for
CURRENT CORRESPOND	Fee pap	(s) Transmittal. Thi ers. Each additiona	is certificate cannot be use	for domestic mailings of the domestic mailings of the for any other accompanying ment or formal drawing, must		
1200 New Hamp	Reed & McManus, pshire Ave. NW, Su		Sta	ereby certify that th	zith sufficient postage for f	nsmission ing deposited with the United irst class mail in an envelope s above, or being facsimile date indicated below.
Washington, DC	20036					(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	L .	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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nonprovisional	YES	\$755	\$300	\$0	\$1055	06/21/2010
EXAM	MINER	ART UNIT	CLASS-SUBCLASS]		
CECIL, T	TERRY K	1797	210-143000	J		
"Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	ND RESIDENCE DATA	"Indication form ned. Use of a Customer A TO BE PRINTED ON 'ified below, no assignee	(1) the names of up to or agents OR, alternation (2) the name of a sing registered attorney or 2 registered patent attorney in the listed, no name will be the PATENT (print or ty data will appear on the part of the substitute for filing an	vely, le firm (having as a agent) and the nam meys or agents. If printed. pe) patent. If an assign	member a 2 es of up to no name is 3	document has been filed for
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• •	ns SMALL ENTITY state	us. See 37 CFR 1.27.	☐ b. Applicant is no lon	ger claiming SMAI	LL ENTITY status. See 37	
interest as shown by the	records of the United Sta	ttes Patent and Trademark	Office.		stered attorney of agent, or	
Typed or printed name					Jo	
This collection of inform	nation is required by 37 (FR 1 311. The information	on is required to obtain or	retain a benefit by t	he public which is to file (and by the USPTO to process)
an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	d application form to the ions for reducing this bu /irginia 22313-1450. DO 313-1450.	e USPTO. Time will vary rden, should be sent to th D NOT SEND FEES OR	of the confection is estailed the confection of the confection of the complete that the complete compl	umated to take 12 i vidual case. Any co er, U.S. Patent and O THIS ADDRESS	omments to complete, included members on the amount of Trademark Office, U.S. Do S. SEND TO: Commissioned	ling gathering, preparing, and time you require to complete epartment of Commerce, P.O. er for Patents, P.O. Box 1450,

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Jae Y. Park			CECIL, TERRY K		
Kile, Goekjian, Reed & McManus, PLLC			ART UNIT	PAPER NUMBER	
1200 New Hamps Washington, DC 2	hire Ave. NW, Suite 57	0	1797		
washington, DC 2	20030		DATE MAILED: 03/19/2010		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 801 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 801 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
10/542,216		KIM, ANDERSON H	
Notice of Allowability	Examiner	Art Unit	
	Mr. Terry K. Cecil	1797	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to the POA filed 2-21-20	(OR REMAINS) CLOSED in or other appropriate commitments. This application is and MPEP 1308.	n this application. If not included unication will be mailed in due co subject to withdrawal from issue	ourse. THIS
2. ☑ The allowed claim(s) is/are <u>42-44 are allowed and have be</u>	en renumbered upon allow	ance as claims 1-3	
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Applicati	on No	on from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EX	AMINER'S AMENDMENT or NO	
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 		w / PTO 048) attached	
(a) ☐ including changes required by the Notice of Dratispers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date	•	w (FTO-940) attached	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the	s Amendment / Comment o	the drawings in the front (not the b	ack) of
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MAT	ERIAL must be submitted. No	te the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No 7. ☑ Examiner's —	nformal Patent Application Summary (PTO-413), /Mail Date s Amendment/Comment s Statement of Reasons for Allow	ance

Application/Control Number: 10/542,216 Page 2

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Claims 42-44 are allowed and have been renumbered upon allowance as claims 1-3.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee. Authorization for this examiner's amendment was given in a telephone interview with Jae Park on 03/01/2010. During the Examiner's initiated interview (where no prior art was discussed) it was decided that the independent claim would be amended as hereinbelow to obviate rejections under 112, 2nd paragraph.

- 2. The application has been amended as follows:
- Claims 1-6, 13, 15-19, and 22-26 have been canceled.
- Claim 42 has been amended as follows:
 - 42. (Currently amended) An underwater discharge core comprises:
 - a frame having a rectangular opening,
- a first platinum plated mesh with a plurality of horizontal strip bars and a plurality of horizontal strip liners made of plated conductive material for mounting on said frame to allow water flow, and

a second platinum plated mesh with a plurality of vertical strip bars and a plurality of vertical strip liners made of plated conductive material for mounting opposite to said first platinum plated mesh on said frame and allowing water flow,

wherein the plurality of horizontal strip bars are respectively each coupled with both right and left edges of the first platinum plated mesh along an X-axis direction while being spaced apart from each other, and the plurality of horizontal strip liners are formed on disposed upon the plurality of horizontal strip bars, and

wherein the plurality of vertical strip bars are respectively each coupled with both top and bottom edges of the second platinum plated mesh along a Y-axis direction while being spaced apart from each other, and the plurality vertical strip liners are formed on disposed upon the plurality of the vertical strip bars.

• Abstract, last line, "System" has been replaced with "system".

Reasons for Allowance

- 3. The following is an examiner's statement of reasons for allowance:
- The closest cited art—'632 and Moriguchi—fail to anticipate or render obvious, alone or in any proper combination, the plurality of horizontal strip bars each being coupled with both right and left edges of the first platinum plated mesh along an X-axis direction while being spaced apart from each other, and the plurality of horizontal strip liners being disposed upon the plurality of horizontal strip bars (and similarly the vertical strip bars in the last 4 lines of the claim)—in combination with all the other limitations of claim 42.
- The drawings filed 7-1-2009 have been approved.
- The nonelected claims without traverse have been canceled.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee.

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Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Mr. Terry K. Cecil whose telephone number is (571) 272-1138.

The examiner can normally be reached on 8:00a-4:30p M-F...

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mr. Terry K. Cecil/

Primary Examiner, Art Unit 1797

tkc